Hurricane 2004-2005
SAD Perspective

USACE/FEMA 2005/2006 Hurricane Season Critique and Planning Workshop
March 07– March 09 2006
Arlington, TX

South Atlantic Division
U.S. Army Corps of Engineers
Atlanta, Georgia

US Army Corps of Engineers
South Atlantic Division

South Atlantic Division

Hurricanes 2004 – 2005

Hurricane Charley – Florida
Hurricane Frances – Florida
Hurricane Ivan – Alabama, Florida
Tropical Storm Jeanne- Puerto Rico
Hurricane Jeanne – FL/GA/SC/NC
Hurricane Dennis – FL/AL
Hurricane Katrina – FL/AL
Hurricane Ophelia – Fl/SC/NC
Hurricane Rita -- Florida
Hurricane Wilma -- Florida

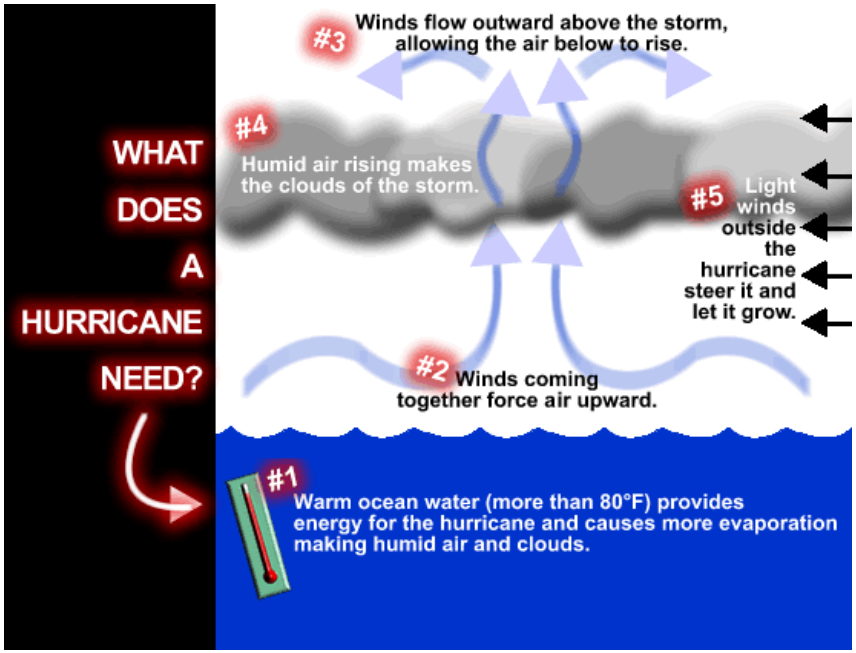
US Army Corps of Engineers

FEMA

9 Hurricanes

- **Different Locales**
- **Different Strengths**
- **Different Personalities**
- **But…**

THE ISSUES ARE THE SAME!


WHAT DOES A HURRICANE NEED?
#3 Winds flow outward above the storm, allowing the air below to rise.
#4 Humid air rising makes the clouds of the storm.
#5 Light winds outside the hurricane steer it and let it grow.
#2 Winds coming together force air upward.
#1 Warm ocean water (more than 80°F) provides energy for the hurricane and causes more evaporation making humid air and clouds.

US Army Corps of Engineers

FEMA

List of Issues

- **Command and Control**
- **Standard Reports and Battle Rhythm– Essential Elements of Information (EEI) for all Mission Areas**
- **$ amount for ACI Contract for Housing and Roofing**
- **Common Operating Picture**
- **Wholesale vs. Retail Commodity Missions**
- **Quality of Plastic Sheeting for Blue Roof Missions**
- **Contracting with Large Businesses versus Small Businesses**
- **Training for PRT Personnel**
- **ROEs for Immobile Victims**
- **Authority over FEMA Contractors**
- **Identification of Temporary Housing Sites**
- **Long Term Sustainability of Housing Mission**
- **Quality of FEMA Temporary Housing Units**
- **Location for Storage of Commodities**
- **Quality Control for Bottled Water**
- **In Transit Visibility of Assets**
- **Pre-positioning of Commodities**
- **Structures that Qualify for Temporary Roofs, e.g. metal roofs**
- **Prioritization of Requirements for Generators**
- **Use of Tarps in Lieu of Plastic**
- **Etc.**
- **Etc.**
- **Etc.**

US Army Corps of Engineers

FEMA

What to Work on

- Standardizatio
- Automatio
- Personnel

US Army Corps of Engineers

STANDARDIZATION

FEMA

- ACIs
- PRTs
- SOPs
- ESF#3 Handbook
- Reports
- Expectations

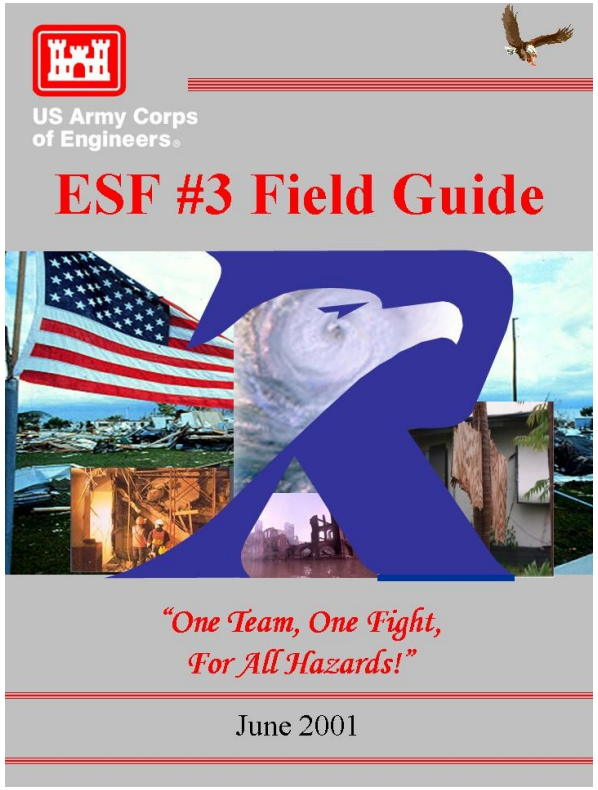
US Army Corps of Engineers

STANDARDIZATION

FEMA

ESF #3 Field Guide

- Great Handbook
- Need rewrite
  - NRP versus FRP
  - Multi District/Multi Division Approach
  - New Timelines
  - New Rates of Production
  - Include (FEMA) Decision Points



US Army Corps of Engineers

STANDARDIZATION

FEMA

Reporting

- Decide now what data is required
- Educate leadership
- Need automated Roll-up
- Determine who (FEMA, PRT, Log Community, etc.) is responsible to get which data and the “as-of” time

US Army Corps of Engineers

STANDARDIZATION

FEMA

Expectations

- Lead times (72 hours on ice/water)
- Productions rates (20,000 roofs/1st 30 days)
- Decision Points (logistics funded H-84)
- Decision Maker
- Decision Support Products (USACE Models, PODs, local official)

US Army Corps of Engineers

AUTOMATION

FEMA

Good timely coordinated decisions require a Common Operating Picture (COP). Automation has untapped capabilities.

- **ENGLINK**
- **P2**
- **GIS**
- **GPS**
- **Modeling**
- **Automated data distribution (NIMS-ICS-HSIN-DMIS)**

US Army Corps of Engineers

AUTOMATION

FEMA

ENGLink INTERACTIVE

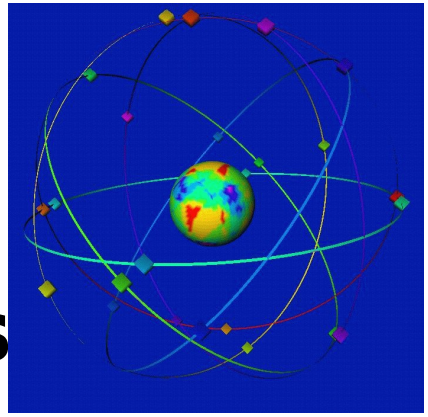
- **Very Useful (Reporting, ACIs, PRTs, Medical Screening, Shoe Size)**
- **Not user friendly**
- **No report automation (roll-ups)**
- **Deployment information**
- **Must be used by all**

US Army Corps of Engineers

FEMA

AUTOMATION

GPS



- **Able to pinpoint locations**
- **Can track numerous commodities**
- **Requires upfront commitment, resources, and training**

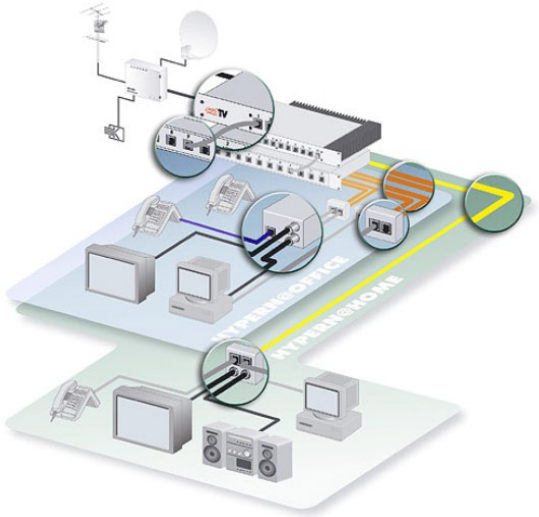
US Army Corps of Engineers

AUTOMATION

FEMA

Data Distribution (NIMS-ICS-HSIN-DMIS)

- Good data needs distribution
- Large files require large bandwidth
- Need to solve firewall concerns
- Provide both data push and data pull
- It must all work together



US Army Corps of Engineers

FEMA

PERSONNEL

KEY TO SUCCESS

- **On the ground personnel**
  - **Initiating deployments**
  - **RSOI**
  - **Billeting**
  - **Pay concerns (Pay Cap, AEA, etc)**

US Army Corps of Engineers

PERSONNEL

FEMA

Initiating Deployments

- **Timely initiation (H-72) of standard sequence (EFS#3, Log personnel for RSOI and for Ice/Water, Advance party, etc)**
- **Personnel prepared and processed rapidly (medical screening/shots)**
- **Complete ENGLINK datasheets required**

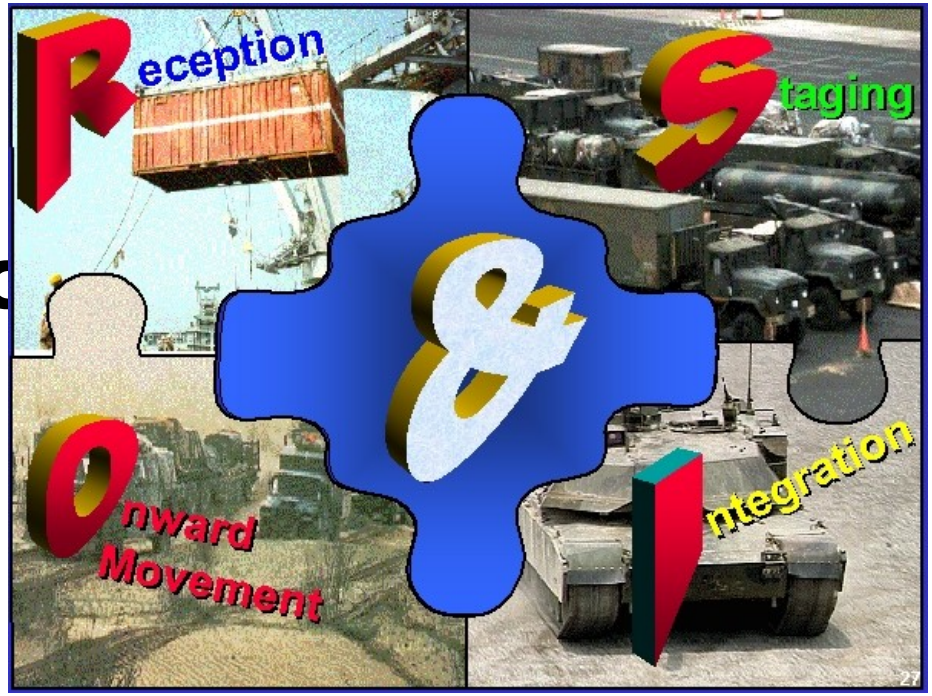
US Army Corps of Engineers

FEMA

PERSONNEL

RSOI

- SOP
- Shot and Medic
- Training



US Army Corps of Engineers

FEMA

PERSONNEL

BILLETING

- **Adequate billeting space ASAP!!!**
- **Near where needed**

US Army Corps of Engineers

FEMA

Summary

Each Hurricane is different, but the missions are the same.

We need to focus on

- **STANDARDIZATION**
- **AUTOMATION**
- **PERSONNEL ISSUES**

QUESTIONS
?

US Army Corps
of Engineers

FEMA

ATM
K S T O R E
Plywood to protect your store from Hurricane Rita.....$200
Supplies to hang the plywood.....$50
Using your Aggie education to hang the plywood on the wrong side of the windows.....PRICELESS!!!!